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#### ABSTRACT

~~Disclosed is a~~ A hydrogen storage material ~~comprising has~~ a magnesium-containing intermetallic compound which can form a hydride with hydrogen. The intermetallic compound ~~comprises has~~ an alloy of magnesium and a trivalent metal selected from the group of Sc, Y, La and the rare earth elements. ~~Preferably, the intermetallic compound comprises a scandium-magnesium alloy. In an advantageous embodiment, the~~ The hydrogen storage material also ~~comprises can further have~~ a catalytically active material.

~~Furthermore, an electrochemically active material, as well as an electrochemical cell comprising the above hydrogen storage material are disclosed.~~